



# Eisbericht Nr. 8

## Amtsblatt des BSH

Jahrgang 95	Nr. 8	Wednesday, 08.12.2021	1
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### Übersicht

In der nördlichen Bottenwiek liegt in den Schären Festeis und weiter außerhalb dünnes ebenes Eis und Neueis. In der südlichen Bottenwiek, Norra Kvarken und der Bottensee treibt Neueis und in Schären und geschützten Buchten liegt dünnes, ebenes Eis. Im Finnischen Meerbusen liegt dünnes, ebenes Eis ganz im Osten und Neueis tritt entlang der Küsten auf. Im Rigaischen Meerbusen befindet sich dünnes ebenes Eis und Neueis im Moonsund, und der Pärnubucht. Neueis kommt im Schärenmeer, der Ålandsee, dem Mälarsee, dem Vänern und vereinzelt entlang der schwedischen Küste in der nördlichen Ostsee und im Skagerrak vor.

### Overview

In the northern Bay of Bothnia, there is fast ice in the archipelagoes and thin level ice and new ice further out. In the southern Bay of Bothnia, Norra Kvarken and the Sea of Bothnia, there is new ice and thin level ice in the archipelagos and sheltered bays. In the Gulf of Finland, thin level ice is present in the eastern-most part and new ice along the coasts. In the Gulf of Riga, there is thin level ice and new ice in Moonsund and Pärnu Bay. New ice is present in the Archipelago Sea, Åland Sea, Lake Mälaren, Lake Vänern and at places along the Swedish coast of the northern Baltic and in the Skagerrak.

### Bay of Bothnia

In the northern Bay of Bothnia, there is up to 20 cm thick fast ice in the archipelagoes from Piteå to Oulu. Further out in the east, there is thin level ice new ice that extends to 17nm southwest of Kemi, 15nm southwest of Oulun portii and out to ~5nm west of Nahkiainen. Of the fast ice in the west, there are bands with close to very close, 5–15 cm

thick ice and else level ice and new ice is present in an approximately 10nm wide area. In the southern Bay of Bothnia, there is new ice along the Swedish coast and thin level ice with new ice further out along the Finnish coast. New ice formation and ice growth is expected the coming days. Some ice drift to the northwest is expected.

### Norra Kvarken

Up to 10cm thick, level ice is present in the inner archipelagoes at the Finnish coast and also along the Swedish coast. Further out new ice occurs and

in the east extends out to 20nm distance from the level ice. Continued ice formation with some northwestward drift is expected the coming days.

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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**Sea of Bothnia**

On upper Ångermanälven and at places in the northern Bay of Bothnia and along the Finnish coast, there is thin level ice. Else, there is new ice

along the coast in the west and out ~5nm from the coast in the east. Ice formation and growth continues the coming days.

**Archipelago and Åland Sea**

New ice and thin level is present in sheltered places in the Archipelago and Åland Sea. Thin level ice

occurs at places along the Finnish coast. No larger change.

**Gulf of Finland**

From St. Petersburg to Kotlin and north of Kotlin, there is 5–10 cm thick very close ice. Farther out there is first close thin ice to about 29°15'E, later close new ice to about 28°50'E. In the Bay of Vyborg there is 5-10 fast ice in the top and farther out first level ice, than new ice. In the Bjerkesund there is very close dark nilas. In the archipelagoes of the northern coast there is thin level ice and new ice

somewhat further out. Along the southern coast, in the bays of Luga, Narva, Kunda und Tallin, there is new ice. In the northern lake Saimaa, there is 5-15cm thick level ice and new ice. In the southern Lake Saimaa and Saimaa Canal, 5-15cm thick broken ice occurs. Ice formation and ice growth will continue.

**Gulf of Riga**

There is very close nilas in Moonsund and and nearby shallow bays, on the fairways there is close nilas. In Pärnu Bay there is very close nilas and

new ice further out to about 24°30'E. Ice formation and ice growth will continue.

**Northern Baltic**

In Lake Mälaren, thin level ice is present in the westernmost part and some sheltered bays. Else, there is some new ice in sheltered bays along the

Swedish coast. Some ice formation will probably occur in Lake Mälaren, but else no larger change is expected.

**Southeastern Baltic**

In the Curonian Lagoon, new ice is present along the eastern coast. Continued ice formation is ex-

pected in the next 36 hours.

**Swedish Lakes**

New ice and level ice is present in sheltered bays of Lake Vänern. Some new ice formation is ex-

pected.

**Skagerrak**

New ice is present at sheltered areas in Norwegian fjords and some other sheltered areas. No larger

change is expected.

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Finland</b>	Tornio, Kemi and Oulu	2000 dwt	II	04.12.
	<b>Tornio, Kemi and Oulu</b>	<b>2000 dwt</b>	<b>I</b>	<b>11.12.</b>
	<b>Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa</b>	<b>2000 dwt</b>	<b>II</b>	<b>08.12.</b>
	<b>Raahe</b>	<b>2000 dwt</b>	<b>I</b>	<b>11.12.</b>
	<b>Northern Lake Saimaa</b>	<b>2000 dwt</b>	<b>II</b>	<b>08.12.</b>
	Southern Lake Saimaa and Saimaa Canal	1300 dwt	II	04.12.
<b>Sweden</b>	<b>Southern Lake Saimaa and Saimaa Canal</b>	<b>2000 dwt</b>	<b>II</b>	<b>11.12.</b>
	Karlsborg, Luleå, Haraholmen and Skelleftehamn	2000 dwt	II	04.12.
	<b>Karlsborg and Luleå</b>	<b>2000 dwt</b>	<b>IC</b>	<b>11.12.</b>
	Ångermanälven	1300/2000 dwt	IC/II	04.12.
	Köping and Västerås	1300/2000 dwt	IC/II	06.12.

### Information of the Icebreaker Services

#### Finland/Sweden

Vessels bound for Gulf of Bothnia ports in which assistance restrictions apply, shall when passing latitude 60° 00' N report their nationality, name, destination, ETA and speed to ICE INFO on VHF channel 78. This report can also be given directly by telephone to +46 10 492 7600.

Vessels bound for Finnish or Swedish ports with assistance restrictions in the Quark or the Bay of Bothnia shall, 20 nautical miles before Nordvalen Lighthouse (63° 32.15' N 20° 46.60' E), report in accordance with the instructions for winter navigation to Bothnia VTS on VHF channel 67.

#### Icebreakers:

OTSO and ALE assist in the Bay of Bothnia.

CALYPSO assists in the northern Lake Saimaa. METEOR assists in the southern Lake Saimaa and the Saimaa Canal.

#### Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

**Icebreakers:** Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

## Baltic Sea Ice Code

<p>First number:</p> <p><b>A<sub>B</sub> Amount and arrangements of sea ice</b></p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p><b>T<sub>B</sub> Topography or form of ice</b></p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p><b>S<sub>B</sub> Stage of ice development</b></p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p><b>K<sub>B</sub> Navigation conditions in ice</b></p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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**Estonia, 08.12.2021**

Shipping route from Narva-Jõssuu	3000
Kunda, port and bay	3000
Paernu, port and bay	5021
Moonsund	4011

**Finland, 08.12.2021**

Roeyttae – Etukari	8745
Etukari – Ristinmatala	5245
Ajos – Ristinmatala	5245
Ristinmatala – Kemi 2	5245
Kemi 2 – Kemi 1	5245
Sea area SW of Kemi 1	5245
Kemi 2 – Ulkokrunni – Virpiniemi	8245
Oulu harbours – Kattilankalla	8745
Kattilankalla – Oulu 1	5245
Sea area SW of Oulu 1	5245
High Sea N of the latitude of Marjaniemi	5145
Raahe harbour – Heikinkari	5245
Heikinkari – Raahe lighthouse	5145
Raahe lighthouse – Nahkiainen	5145
Latitude Marjaniemi – Ulkokalla, Sea	4045
Rahja harbour – Välimatala	3015
Välimatala to line Ulkokalla – Ykskivi	3015
Ykspihlaja – Repsaer	5245
Repskaer – Kokkola lighthouse	5145
Sea area off Kokkola lighthouse	3015
Pietarsaari – Kallan	5145
Vaskiluoto – Ensten	5145

Ensten – Vaasa lighthouse	3015
Kaskinen – Sälgrund	3001
Sea area off Sälgrund	3001
Rauma, Harbour – Kylväpihlaja	3001
Kylväpihlaja – Rauma lighthouse	3001
Uusikaupunki harbour – Kirsta	3001
Kirsta – Isokari	3001
Naantali and Turku – Rajakari	2000
Inkoo a. Kantvik – sea area Porkkala	3001
Helsinki harbours – Harmaja	3001
Valko Harbour – Täktarn	3001
Kotka – Viikari	4001
Hamina – Suurmusta	4001

**Russian Federation, 08.12.2021**

Port of St. Petersburg	51/2
St. Petersburg – E-point island Kotlin	51/2
E-point Kotlin – long. lighth. Tolbuhkin	50/1
Lighth. Tolbuhkin – lighth. –Šepelevskij	40/1
Lighthouse –epelevskij – island Sescar	3000
Vyborg, port and bay	81/2
Island Vichrevoj – Island Sommers	3001
Strait Bjerkesund	50/2
E-point Bol'-oj Ber'ozovyj – –epelevskij	40/1
Luga bay	3001

**Sweden, 08.12.2021**

Karlsborg – Maloeren	8346
Sea area off Maloeren	4046

Luleå – Bjoernklack	8346
Bjoernklack – Farstugrunden	4046
Sandgroenn fairway	5236
Roedkallen – Norstroemsgrund	4046
Haraholmen – Nygrån	8246
Sea area off Nygrån	5246
Skelleftehamn – Gåsoeren	5046
Sea area off Gåsoeren	5136
Sea area off Bjuroeklubb	5132
Western Quark (W of Holmoearna)	5142
Umeå – Vaektaren	5041
SE of Vaektaren	4041
Oernskoeldsvik – Hoernskaten	5041
Hoernskaten – Skagsudde	5041
Ångermanaelven north Sandoe Bridge	5244
Ångermanaelven south Sandoe Bridge	5244
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	5142
Draghaellan – Åstholmsudde	4041
Hudiksvallfjaerden	4041
Iggesund – Agoe	5041
Gaevle – Eggegrund	4041
Hallstavik – Svartklubben	4041
Stockholm – Traelhavet – Kloevholmen	4041
Koeping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4044
Södertälje – Fifong	4044
Fairway to Karlstad	5142
Fairway to Kristinehamn	5041